(ii) a thermal polymerization initiator selected from the group consisting of 2,2'-azobis-[N,N'-dimethyleneisobutyramidine] dihydrochloride and derivatives of 2,2'-azobis-[N,N'-dimethyleneisobutyramidine] dihydrochloride, and

(iii) a diagnostic, therapeutic, or prophylactic agent [into an animal's body]; and applying thermal energy transdermally for a sufficient amount of time to polymerize or crosslink the said prepolymer, or allowing the pre-polymer to polymerize or crosslink using only the animal's own body heat as a thermal energy source.

- 51. (Amended) The method of claim 17 wherein the polymerizable material has unsaturated functional groups selected from the group consisting of alkenes, alkynes, carbonyls, imines, nitriles, cyano, cyanates, isocyanates, iso-cyano, amides, esters, ketones, aldehydes, ureas, carbonates, carbonylic acids, phenyl, aryl, and heteroaryl.
- 58. (Amended) The method of claim 17 wherein the thermal polymerization initiator has [limited] no toxicity in animals.

Please add the following new claims:

--62. (New) The method of claim 17, wherein the polymerizable material (prepolymer) is selected from the group consisting of acrylates, diacrylates, oligoacrylates, methacrylates, dimethacrylates, and oligomethacrylates.